

Shouryan Patil

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EDUCATION

M.Sc. Bioinformatics (CGPA: 8.31)

Dr. D. Y. Patil Arts, Commerce & Science College

B.Sc. Biotechnology (CGPA: 8.00)

Modern College of Arts, Science & Commerce

Higher Secondary Education (12th Grade) (60%)

Acharya Shri D. B. Dadawala Junior College

Senior Secondary Education (10th Grade) (72.20%)

Modern High School

Pimpri, Pune

June 2023 – April 2025

Ganeshkhind, Pune

June 2020 – April 2023

Kasba Peth, Pune

June 2019 – April 2020

Shivajinagar, Pune

June 2017 – April 2018

WORK EXPERIENCE

BVG Life Sciences Limited

Computational biology and R&D Intern

Chinchwad, Pune

April 2024 – October 2024

- **Advanced Molecular Docking:** Used AutoDock4 and AutoDock Vina to identify herbal ligands for disease-targeted proteins, aiding novel drug discovery.
- **Data Visualization & Analysis:** Leveraged R for docking result visualization and molecular interaction analysis, ensuring precise reporting.
- **Therapeutic Target Screening:** Conducted protein identification and ligand screening for multiple diseases, supporting drug discovery research.
- **Quality Assurance Expertise:** Performed stability testing of oral solid and liquid products using advanced lab instruments, ensuring compliance.

CODSOFT

Python Programming Intern

Remote

February 2024 – February 2024

- **Python Development Projects:** Built a To-Do List app, calculator, password generator, and Rock-Paper-Scissors game, showcasing problem-solving and programming skills.
- **GUI & Logic Implementation:** Developed interactive applications with user-friendly interfaces and functional logic using Python.

PROJECT

Microbial Genome GC Content Analyzer

March, 2025 - March, 2025

Developed a Python-based Microbial Genome GC Content Analyzer using Biopython for sequence parsing and Matplotlib for visualization. Implemented GC content calculation, sliding window analysis, statistical summaries, and automated FASTA handling with CSV export.

Drug Repurposing for Colorectal Cancer

November, 2024 - February, 2025

Conducted an in-silico drug repurposing study for colorectal cancer, targeting key oncogenic pathways (EGFR/MAPK, Wnt/ β -catenin, and PI3K/AKT). Utilized molecular docking and molecular dynamics simulations to screen FDA-approved drugs. Identified Pazopanib and Brequinar as promising candidates with strong binding affinities and favorable pharmacokinetic profiles.

Automated Docking Pipeline with AutoDock Vina

January, 2025 - January, 2025

Developed a Python-based automation script for molecular docking with AutoDock Vina, enabling large-scale ligand screening. Automated docking, extracted binding affinities, and ranked ligands to accelerate drug discovery.

SKILLS

Computational Tools: Python | R | Linux | Bash scripting | HTML | CSS | JavaScript

Bioinformatics Software: AutoDock | GROMACS | Chimera | PyMOL

Data Visualization: Matplotlib | seaborn

Database Management: MySQL | UCSC Genome Browser

Relevant Courses: NGS | PHP | AutoDock | Linux | MD simulation | Data Analytics | Data Mining | Probability and Statistics

CERTIFICATIONS

Certifications: Genetics and NGS for Bioinformatics (Udemy) | Linux Tutorial (Great Learning) | My SQL Basics (Great Learning) | Business Intelligence using Power BI (Skill Nation) | R Programming Language (Great Learning) | Excel for Beginners (Great Learning) | Forests and Their Management (NPTEL)